L Number	Hits	Search Text	DB	Time stamp
1	768	cd45	USPAT	2003/07/02 15:27
2	960055	cd "45" or (RPTP) or (PTPRC)	USPAT	2003/07/02 15:28
3	783	(cd45) or (RPTP) or (PTPRC)	USPAT	2003/07/02 15:28
4	30	((cd45) or (RPTP) or (PTPRC)) same (AIDS or HIV$)	USPAT	2003/07/02 15:33
5	21	((cd45) or (RPTP) or (PTPRC)) same (HIV$)	USPAT	2003/07/02 15:33

COMMENT: Erratum in: AIDS 2001 Nov 9;15(16):2210
AUTHOR: Tchilian E Z; Wallace D L; Dawes R; Imami N; Burton C; Gotch F; Beverley P C
CORPORATE SOURCE: The Edward Jenner Institute for Vaccine Research, Compton, UK.
SOURCE: AIDS, (2001 Sep 28) 15 (14) 1892-4.
Journal code: 8710219. ISSN: 0269-9370.
PUB. COUNTRY: England: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; AIDS
ENTRY MONTH: 200112
ENTRY DATE: Entered STN: 20011002
Last Updated on STN: 20020222
Entered Medline: 20011214

AB The **CD45** antigen is essential for normal antigen receptor-mediated signalling in lymphocytes, and different patterns of splicing of **CD45** are associated with distinct functions in lymphocytes. Here we show that abnormal **CD45** splicing caused by a **C77G** transversion in exon A of the gene encoding **CD45** (**PTPRC**) is associated with increased susceptibility to **HIV**-1 infection.

=> d hist

(FILE 'HOME' ENTERED AT 15:44:18 ON 02 JUL 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 15:44:35 ON 02 JUL 2003
L1 12730 S (CD45) OR (RPTP) OR (PTPRC)
L2 514695 S (AIDS) OR (HIV?) OR (HUMAN(1A) IMMUNO(1A)DEFIC?)
L3 514829 S (AIDS) OR (HIV?) OR (HUMAN(1A) IMMUNO?(1A)DEFIC?)
L4 570 S L3 AND L1
L5 9 S (C77G) AND L4
L6 4 DUP REM L5 (5 DUPLICATES REMOVED)

=> d ibib ab 1-4

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:978027 CAPLUS
DOCUMENT NUMBER: 138:54527
TITLE: Screens for susceptibility to immunodeficiency and viral disease
INVENTOR(S): Tchilian, Elma; Beverley, Peter
PATENT ASSIGNEE(S): The Edward Jenner Institute for Vaccine Research, UK
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002103049	A2	20021227	WO 2002-GB2785	20020614
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003008276	A1	20030109	US 2001-20758	20011030

PRIORITY APPLN. INFO.: GB 2001-14512 A 20010614
US 2001-20758 A 20011030

AB Methods of screening human subjects for susceptibility to viral disease and/or a predisposition to developing more severe viral disease and methods of screening human subjects for susceptibility to developing immunodeficiency and/or a predisposition to developing more severe immunodeficiency are discussed. The screening methods are based on detection of polymorphic variants in the gene encoding **CD45**. PCR was used to detect the **C77G** mutation of the **CD45** gene in humans with immunodeficiency disease (hemophagocytic lymphohistiocytosis, common variable immunodeficiency) or viral infection (**HIV**-1, EBV, poliovirus). The **C77G** mutation is the cause of abnormal **CD45** splicing.

L6 ANSWER 2 OF 4 MEDLINE DUPLICATE 1
ACCESSION NUMBER: 2002126169 MEDLINE
DOCUMENT NUMBER: 21850514 PubMed ID: 11862398
TITLE: A **CD45** polymorphism associated with abnormal splicing is absent in African populations.
AUTHOR: Tchilian Elma Z; Dawes Ritu; Ramaley Patricia A; Whitworth James A; Yuldasheva Nadira; Wells R Spencer; Watera Christine; French Neil; Gilks Charles F; Kunachiwa Warunee; Ruzibakiev Ruslan; Leetrakool Nipapan; Carrington Christine V F; Ramdath D Dan; Gotch Frances; Stephens Henry A; Hill Adrian V; Beverley Peter C L
CORPORATE SOURCE: The Edward Jenner Institute for Vaccine Research, Compton, Berks RG20 7NN, UK.. elma.tchilian@jenner.ac.uk
SOURCE: IMMUNOGENETICS, (2002 Feb) 53 (10-11) 980-3.
Journal code: 0420404. ISSN: 0093-7711.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals

ENTRY MONTH: 200204
ENTRY DATE: Entered STN: 20020226
Last Updated on STN: 20030105
Entered Medline: 20020422

AB The **CD45** antigen is essential for normal antigen receptor-mediated signalling in lymphocytes, and different patterns of splicing of **CD45** are associated with distinct functions in lymphocytes. Abnormal **CD45** splicing has been recognized in humans, caused by a **C77G** transversion in the gene encoding **CD45** (**PTPRC**). Recently the **C77G** polymorphism has been associated with multiple sclerosis and increased susceptibility to **HIV**-1 infection. These studies suggest that the regulation of **CD45** splicing may be critical for the proper function of the immune system. Because of these data we examined the frequency of the **C77G** allele in African and Asian populations from countries with high or low prevalence of **HIV** infection. Here we report that the variant **CD45 C77G** allele is absent in African populations. We further show that populations living in the Pamir mountains of Central Asia have a very high prevalence of the **C77G** variant.

L6 ANSWER 3 OF 4 MEDLINE DUPLICATE 2
ACCESSION NUMBER: 2001253995 MEDLINE
DOCUMENT NUMBER: 21240678 PubMed ID: 11342634
TITLE: The exon A (**C77G**) mutation is a common cause of abnormal **CD45** splicing in humans.
AUTHOR: Tchilian E Z; Wallace D L; Imami N; Liao H X; Burton C; Gotch F; Martinson J; Haynes B F; Beverley P C
CORPORATE SOURCE: Edward Jenner Institute for Vaccine Research, Compton, United Kingdom.. elma.tchilian@jenner.ac.uk
SOURCE: JOURNAL OF IMMUNOLOGY, (2001 May 15) 166 (10) 6144-8. Journal code: 2985117R. ISSN: 0022-1767.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 200108
ENTRY DATE: Entered STN: 20010813
Last Updated on STN: 20010813
Entered Medline: 20010809

AB The leukocyte common (**CD45**) Ag is essential for normal T lymphocyte function and alternative splicing at the N terminus of the gene is associated with changes in T cell maturation and differentiation. Recently, a statistically significant association was reported in a large series of human thymus samples between phenotypically abnormal **CD45** splicing and the presence of the CC chemokine receptor 5 deletion 32 (CCR5del32) allele, which confers resistance to **HIV** infection in homozygotes. We show here that abnormal splicing in these thymus samples is associated with the presence of the only established cause of **CD45** abnormal splicing, a **C77G** transversion in exon A. In addition we have examined 227 DNA samples from peripheral blood of healthy donors and find no association between the exon A (**C77G**) and CCR5del32 mutations. Among 135 PBMC samples, tested by flow cytometric analysis, all those exhibiting abnormal splicing of **CD45** also showed the exon A **C77G** transversion. We conclude that the exon A (**C77G**) mutation is a common cause of abnormal **CD45** splicing and that further disease association studies of this mutation are warranted.

L6 ANSWER 4 OF 4 MEDLINE DUPLICATE 3
ACCESSION NUMBER: 2001531882 MEDLINE
DOCUMENT NUMBER: 21462193 PubMed ID: 11579257
TITLE: A point mutation in **CD45** may be associated with an increased risk of **HIV**-1 infection.